



**NOAA
FISHERIES**

**Southwest
Fisheries
Science Center**

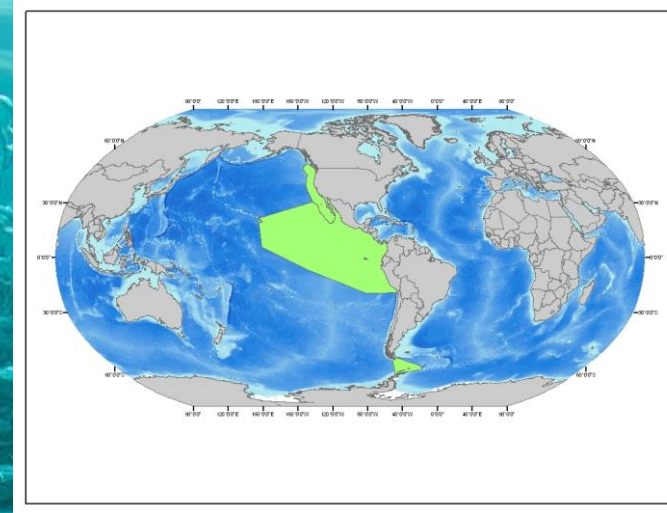
2.0 SWFSC Overview

19 July 2013

Cisco Werner

<http://swfsc.noaa.gov>

SWFSC Mission



Generate the science necessary to manage and conserve the living marine resources of the California Current, the eastern tropical Pacific, and portions of the California watershed ecosystems, the North Pacific, Pacific Islands, and Southern Ocean.

Key Legislative Mandates

Magnuson-Stevens Fishery Management Reauthorization Act (MSRA)

Marine Mammal Protection Act (MMPA)

Endangered Species Act (ESA)

International Agreements
(IATTC, IWC , CCAMLR,
WCPFC...)

... and numerous other
legislative and regulatory
requirements



Major Fishery Stakeholders and Partners

NOAA Fisheries Southwest and Northwest Fisheries Science Centers

Pacific Fisheries Management Council (PFMC)

University of California

- Scripps Institution of Oceanography, UCSD: California Cooperative Fisheries Investigations (CalCOFI), CIMEC, CAPAM
- UCSC: Center for Stock Assessment Research (CSTAR)

International Scientific Bodies

- Inter-American Tropical Tuna Commission
- International Scientific Committee on Tuna (ISC)
- WCPFC Scientific Committee
- Trilateral Sardine Forum
- International Whaling Commission (IWC)
- Commission for the Conservation of Antarctic Living Marine Resources (CCAMLR)

Commercial and recreational fishing industries; seafood industry

Recreational ocean users

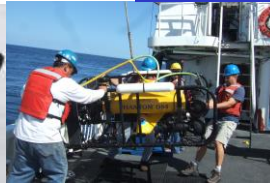
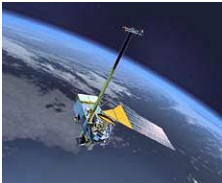
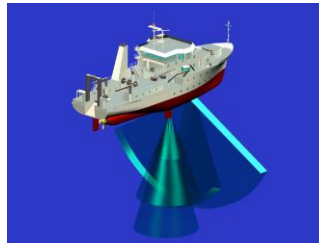
Conservation groups

Southwest Fisheries Science Center

The early years: Established in 1964 to understand the impacts of the fishery on sardines and studies of tunas and tuna fishing in eastern Pacific

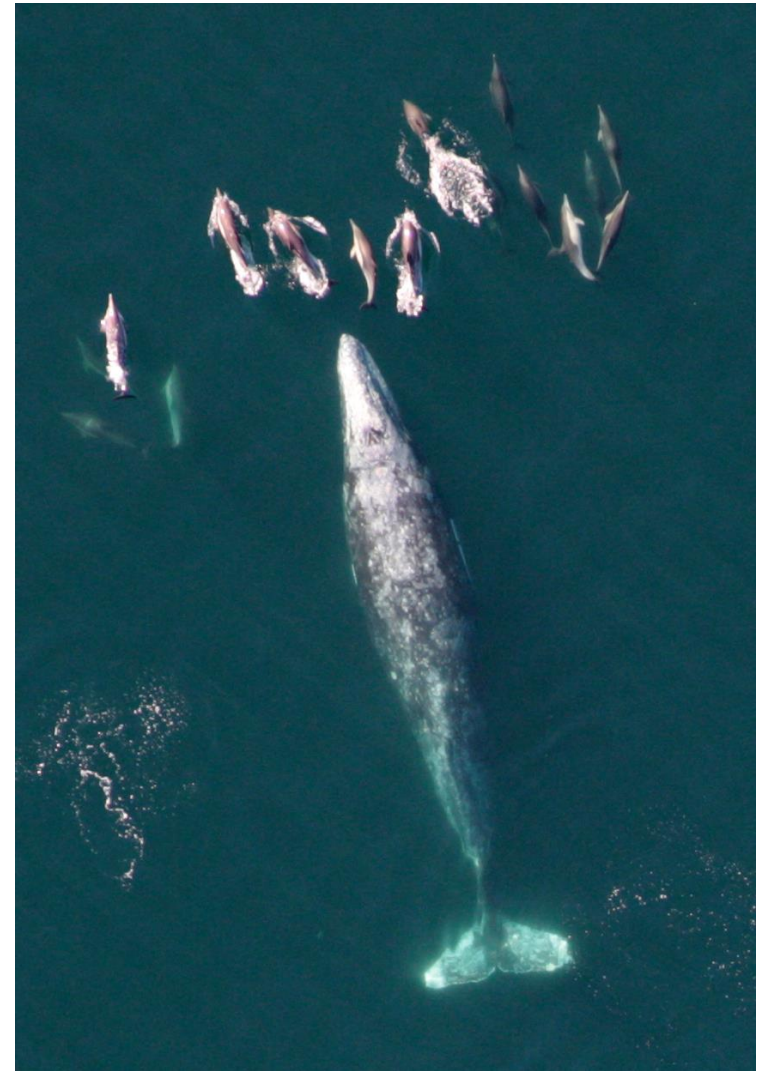


Today: new technologies driving our data collection



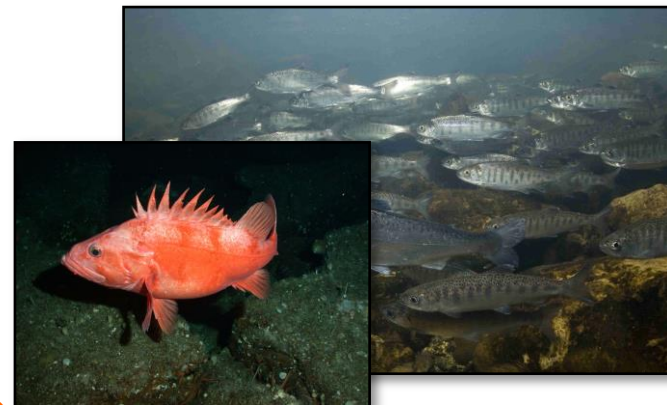
Institutional Structure

- NOAA is the National Oceanic and Atmospheric Administration, part of the Department of Commerce
- National Marine Fisheries Service (NMFS) - one of five NOAA Line Offices - whose mission is to promote sustainable fisheries, the recovery of protected species, and the habitats on which they depend
- NMFS operates six Fisheries Science Centers nationally; associated with six (and soon five) Fishery Regions and eight Fishery Management Councils

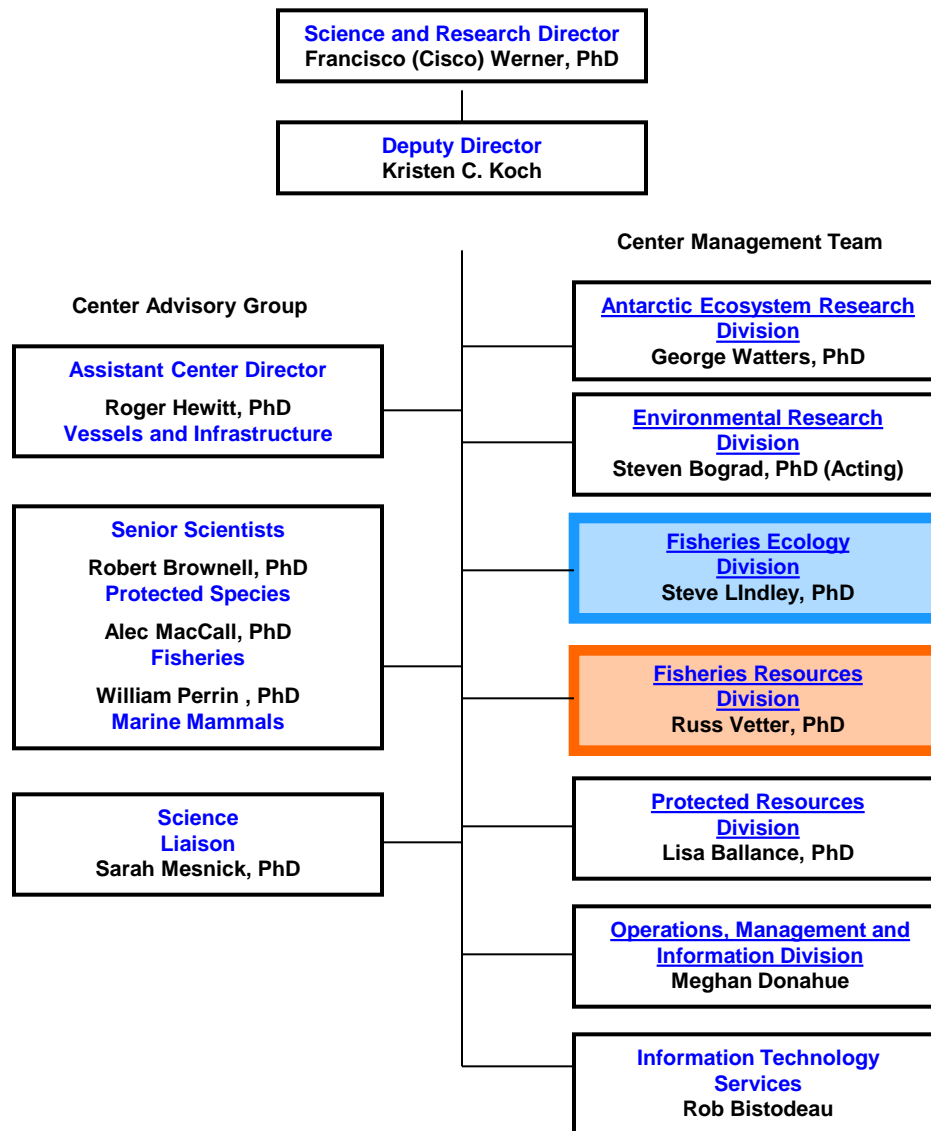


Programs and Drivers

- **Coastal Pelagic Species - MSRA**
Pacific sardine, anchovy, Pacific mackerel, market squid
- **Highly Migratory Species - MSRA, ISC, IATTC, WCPFC**
Albacore tuna, bluefin tuna, striped marlin, sharks
- **Demersal Species - MSRA**
Rockfishes (*Sebastes* sp.)
- **Anadromous Species - ESA, MSRA**
Chinook salmon, coho salmon, steelhead, green sturgeon
- **Abalone - ESA**
White, black
- **Marine Mammals - MMPA, ESA, IWC, IDCPA**
Dolphins, whales, pinnipeds
- **Marine Turtles – ESA**
Leatherback turtles, green turtles
- **Antarctic Ecosystem – CCAMLR**
Krill, fish, fur Seals, Seabirds
- **Technology Development – All**
Acoustics, ROVs, AUVs, Genetics, Photogrammetry
- **Integrated Ecosystem Assessments – All**



Organizational Structure



Also at our facilities:

NOAA's National Environmental Satellite, Data and Information Service, [CoastWatch](#)

NOAA's National Ocean Service, [Monterey Bay National Marine Sanctuary](#)

NOAA's Office of Oceanic and Atmospheric Research, [Atlantic Oceanographic and Meteorological Laboratory](#)

NOAA's National Marine Fisheries Service, [Pacific Islands Fisheries Science Center](#)

[California Department of Fish and Wildlife](#)

[Inter-American Tropical Tuna Commission](#)

[UC Davis Marine Pollution Laboratory](#)



Facilities

La Jolla



Pacific Grove



Santa Cruz



Field Sites

Arcata (CSU-Humboldt)
Granite Canyon
Piedras Blancas
Antarctic Peninsula

FY13 Budget(*)

PROGRAM	BUDGET
FISHERIES: Surveys, Assessments, Oceanography, Socioeconomics, Ecology, Life History, CalCOFI, Sample Collection and Archive	\$18,376,574
MARINE MAMMALS AND SEA TURTLES: Surveys, Assessments, Oceanography, Ecology, Health and Life History, Sample Collection and Archive	\$6,683,281
ANTARCTIC MARINE LIVING RESOURCES	\$3,264,748
CENTER OPERATIONS: Director's Office, Operations, Management and Information, Facilities costs for 3 Laboratories	\$8,501,350
TOTAL	\$36,825,953

(*)The budget numbers are from the enacted sequestration allocation and do not include temporary funds or funding from our reimbursable projects (it is in essence our "base" budget with which we started fiscal year 2013).

SWFSC Staffing FY13

DIVISION	FEDERAL	NON-FEDERAL (*)	TOTAL
Director's Office	6	1	7
Operations, Management and Information	27	3	30
Fisheries Resources Division	44	25	69
Fisheries Ecology Division	46	27	73
Marine Mammal and Turtle Division	51	19	70
Environmental Resources Division	11	2	13
Antarctic Ecosystem Research Division	10	4	14
TOTAL	195	81	276

(*) "Non-federal" staff represents our contractors but does not include students, visiting scientists, etc.

SWFSC Science Plan Overview

- Purpose
 - SWFSC strategic orientation
 - NMFS science enterprise approach
- Orientation
 - Mandate-driven: MSFCMA, ESA, MMPA
- Themes
 - *Population assessment*
 - *Ecosystem analysis*
 - *Observations, measurements and surveys*
 - *Technological innovation and development*
- Published July 2014
- Next step: Implementation Plan for FY14 (defining priorities to budgets)

